

TYPE:

CATALOG#:

## DESCRIPTION

A low brightness 6" aperture adjustable accent fixture for metal halide CDM-R111 lamps (39W max) with FadeBlock™. The CDM-R111 ceramic metal halide lamp with integral spun aluminum reflector provides smooth precise beam control. Optics allow the lamp axis to pivot about the center of the aperture at the ceiling line, allowing maximum light output with no flashback. 20° truncated cone allows full range and flexibility of aiming.

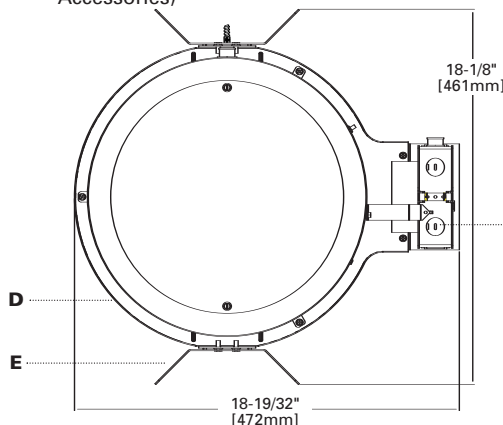
## SPECIFICATION FEATURES

### A...Reflector

Spun 0.040" aluminum. Available in low iridescent clear, haze, warm haze, straw, wheat and specular black Alzak® finishes or painted white. Torsion springs pull trim tight to ceiling. Reflector is keyed to prevent improper orientation relative to lamp.

### B...Trim Ring

High impact polymer with satin white finish or self flanged reflector. Metal trim ring and rimless trim ring accessories available. (See Options and Accessories)



## SPECIFICATION FEATURES

### C...Aiming Mechanism

Stable lamp aiming and locking mechanism allows smooth 365° rotation and 35° elevation adjustment. Lamp aiming scale enables consistent setting across multiple fixtures. Lens clips included with housing allow use of two lenses.

### D...Housing

One piece die cast 1 1/2" (38mm) deep collar. Housing is painted optical matte black to eliminate stray light. Housing is top accessible.

### E...Universal Mounting Bracket

Accepts 1/2" EMT, C channel, T bar fasteners, and bar hangers (See Accessories). Provides 5" total vertical adjustment.

### F...Conduit Fittings

Die-cast screw tight connectors.

### G...Junction Box

Galvanized with (6) 1/2" and (2) 3/4" KOs. Listed for (12) #12 AWG 90° C conductors.

### H...Socket

4kV pulse rated GX8.5 socket.

### I...Ballast

Thermally protected, Class A electronic ballast provides full light output and rated lamp life. Provides noise free operation and starting. Offers excellent line voltage regulation (+/- 0.5% output variation with +/- 10% changes in line voltage) resulting in increased color stability and flicker free operation. Extended brown-out survival eliminates most lamp drop-outs caused by short term sags of input voltage. Ballast is warranted against defects in material and workmanship for three years from the date of shipment.

### J...Insulation Detector

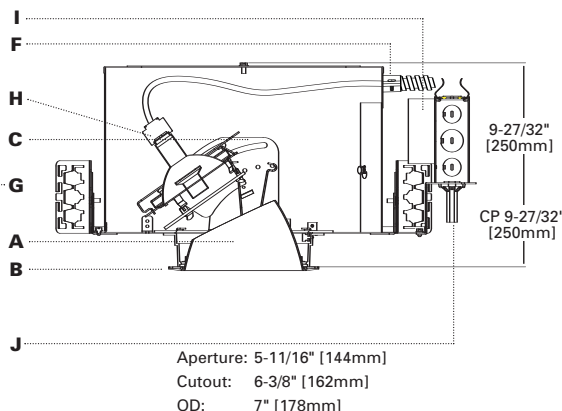
Self-resetting insulation detector opens circuit if insulation is improperly installed.

### Labels

U.L. listed and cUL listed, damp location, IBEW union made.

### Options and Accessories

TRM = Metal Trim Rings to replace polymer trim ring  
TRR = Rimless Trim Rings for minimal flange appearance in plaster ceilings  
L200 = Color filters and lenses



## ORDERING INFORMATION

SAMPLE NUMBER: MA639AR1E 6470

Housing	Ballast	Voltage	Reflector	Finish	Accessories
MA6=6" Adjustable Housing MA6CP*=6" Chicago Plenum Adjustable *Chicago Plenum (supplied with gasketed wiring enclosure to comply with Chicago electrical code for air return plenums)	39AR=39W CDM-R111	1E=120V electronic 2E=277V electronic	6470=Polymer Trim Ring 6471=Self Flanged	LI=Specular Clear H=Haze S=Straw WH=Wheat WMH=Warm Haze B=Black W=Gloss White BB=Black Baffle WB=White Baffle For white painted flange on self flanged reflectors add WF to reflector finish.	Metal Trim Rings TRM6P=White TRM6MB=Black Rimless Trim Rings TRR6 Field-Installable Fuse Kits FK3=3 Amp (300V Max) FK5=5 Amp (300V Max) FK10=10 Amp (125V Max) Bar Hangers/Mounting Bars HB26=26" long bar hangers HB50=50" long bar hangers RMB22=22" Long Wood Joist mounting bars Color Filters and Lenses L211=Medium Pink L212=Warm Red L214=Ultraviolet L220=Daylight Blue L221=Medium Blue L231=Medium Amber L241=Medium Green

NOTES: Accessories should be ordered separately. For additional options please consult your Cooper Lighting Representative. Alzak is a registered trademark of Aluminum Company of America.



## MA6AR

39W CDM-R111

Electronic Metal Halide

6" ADJUSTABLE

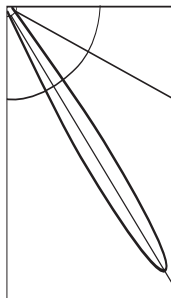
## ENERGY DATA

39W MH

Input Watts: 120V-43W, 277V-43W  
Max Current: 120V 0.36A, 277V-0.16A  
Power Factor:>99%  
T.H.D.:<5%  
Min Starting Temperature: 5°F (-30°C)  
Sound Rating:A

## PHOTOMETRICS

## Candlepower Distribution



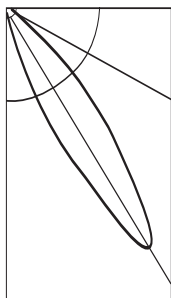
Test No. H28103  
**MA639AR-9471LI**  
 Lamp=CDM-R11 35W/830  
 10° Beam  
 Lumens=1430

Efficiency=88.3%

## Candlepower

Deg.	CD	
	0°	180°
0	77	77
5	122	47
15	504	31
25	12921	15
35	12573	6
45	439	4
55	32	4
65	3	3
75	2	3
85	2	2
90	0	0

## Candlepower Distribution

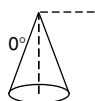


Test No. H28100  
**MA639AR-9471LI**  
 Lamp=CDM-R11 35W/830  
 24° Beam  
 Lumens=1430

Efficiency=88.3%

## Candlepower

Deg.	CD	
	0°	180°
0	3588	3588
5	3398	3643
15	3194	3273
25	2721	2862
35	2315	2445
45	1574	1715
55	614	479
65	416	46
75	191	16
85	17	3
90	0	0

0° Aiming Angle  
Horizontal Luminance

## Lamp

MA639AR-9471LI  
 39W R111  
 10° Beam  
 1430 Lumens

D	FC	L	W	S
10'0"	339	2.6	2.6	2
12'5"	217	3.3	3.3	2.5
18'0"	105	4.7	4.7	3.6
20'0"	85	5.2	5.2	4
25'0"	54	6.5	6.5	5
30'0"	38	7.8	7.8	6

TEST # H28104

30° Aiming Angle  
Horizontal Luminance

D	FC	L	W
10'0"	195	3.7	3.4
12'5"	124	4.6	4.3
18'0"	60	6.6	6.2
20'0"	49	7.3	6.9
25'0"	31	9.1	8.6
30'0"	22	11	10.3

TEST # H28103

30° Aiming Angle  
Vertical Luminance

D	FC	L	W	CB
4'0"	265	3.9	2.2	6'9"
5'0"	170	4.8	2.7	8'7"
6'0"	118	5.8	3.3	10'4"
8'0"	66	7.7	4.3	13'9"
10'0"	42	9.7	5.4	17'3"
12'0"	29	11.6	6.5	20'0"

TEST # H28103

MA639AR-9471LI  
 39W R111  
 24° Beam  
 1430 Lumens

D	FC	L	W	S
8'0"	116	2.8	2.8	4
9'0"	91	3.2	3.2	4.5
10'0"	74	3.5	3.5	5.0
13'0"	44	4.6	4.6	6.5
16'0"	29	5.6	5.6	8.0

TEST # H28104

D	FC	L	W
8'0"	74	3.9	3.4
9'0"	58	4.4	3.9
10'0"	47	4.8	4.3
13'0"	28	6.3	5.6
16'0"	18	7.7	6.9

TEST # H28100

D	FC	L	W	CB
2'0"	270	2.1	1.4	3'5"
3'0"	120	3.1	2.2	5'2"
4'0"	68	4.1	2.9	6'9"
5'0"	43	5.2	3.6	8'7"
6'0"	30	6.2	4.3	10'4"
8'0"	17	8.3	5.8	13'9"

TEST # H28100

Note: Specifications and Dimensions subject to change without notice.

Visit our website at [www.cooperlighting.com](http://www.cooperlighting.com)